

**AMENDMENTS TO H.R. 3776**  
**OFFERED BY MR. GORDON OF TENNESSEE**

Page 1, line 6, through page 2, line 4, amend section 2 to read as follows:

**1 SEC. 2. DEFINITIONS.**

2 For purposes of this Act—

3 (1) the term “Department” means the Department of Energy;

5 (2) the term “electric drive vehicle” means—

6 (A) a vehicle that uses an electric motor  
7 for all or part of its motive power, including  
8 battery electric, hybrid electric, plug-in hybrid  
9 electric, fuel cell, and plug-in fuel cell vehicles,  
10 and rail transportation vehicles; or

11 (B) mobile equipment that uses an electric  
12 motor to replace an internal combustion engine  
13 for all or part of the work of the equipment;

14 (3) the term “islanding” means a distributed  
15 generator or energy storage device continuing to  
16 power a location in the absence of electric power  
17 from the primary source;

18 (4) the term “microgrid” means an integrated  
19 energy system consisting of interconnected loads and

1 distributed energy resources, including generators  
2 and energy storage devices, which as an integrated  
3 system can operate in parallel with the utility grid  
4 or in an intentional islanding mode;

5 (5) the term “Secretary” means the Secretary  
6 of Energy;

7 (6) the term “self-healing grid” means a grid  
8 that is capable of automatically anticipating and re-  
9 sponding to power system disturbances, including  
10 the isolation of failed sections and components, while  
11 optimizing its own performance and service to cus-  
12 tomers; and

13 (7) the term “spinning reserve services” means  
14 an amount of electric generating capacity in excess  
15 of the amount needed to meet peak electric demand.

Page 2, lines 5 through 10, strike section 3.

Page 2, line 11, through page 6, line 23, redesignate  
sections 4 through 8 as sections 3, 4, 5, 6, and 9, respec-  
tively.

Page 2, line 14, insert “electric drive” after “storage  
systems for”.

Page 2, after line 23, insert the following new sub-  
section (and redesignate the subsequent subsection ac-  
cordingly):

1 (b) FUNDING.—For activities carried out under this  
2 section, in addition to funding activities at National Lab-  
3 oratories, the Secretary shall award funds to, and coordi-  
4 nate activities with, a range of stakeholders including the  
5 public, private, and academic sectors.

Page 3, line 6, insert “electric drive” after “systems to support”.

Page 3, after line 17, insert the following new subsection (and redesignate the subsequent subsection accordingly):

6 (b) FUNDING.—For activities carried out under this  
7 section, in addition to funding activities at National Lab-  
8 oratories, the Secretary shall award funds to, and coordi-  
9 nate activities with, a range of stakeholders including the  
10 public, private, and academic sectors.

Page 3, line 23, strike “6” and insert “a program of”.

Page 4, lines 3 and 4, strike “including” and insert “such as”.

Page 4, line 6, insert “electric drive” after “systems manufacturers,”.

Page 4, lines 8 through 10, strike “following objectives” and all that follows through “this subsection” and

insert “demonstrations shall include one or more of the following objectives”.

Page 4, line 16, strike “self-healing circuits” and insert “a self-healing grid”.

Page 4, line 23, strike “frequency response or”.

Page 5, line 10, strike “shaving of homes, businesses, or grid” and insert “load management of homes, businesses, and the grid”.

Page 5, lines 11 and 12, strike “such as plug-in hybrid vehicles”.

Page 5, line 12, strike “the night time valley” and insert “nonpeak generation periods”.

Page 5, line 17, strike “such sums as may be necessary” and insert “\$30,000,000”.

Page 5, line 21, insert “electric drive” after “a program of”.

Page 5, line 24, insert “electric drive” after “their suppliers,”.

Page 6, line 11, insert “and” after “management systems,”.

Page 6, line 13, insert “, including with drivetrain systems for passenger, commercial, and nonroad electric drive vehicles” after “vehicular platform”.

Page 6, line 21, strike “such sums as may be necessary” and insert “\$30,000,000”.

Page 6, after line 22, insert the following new sections:

1 **SEC. 7. SECONDARY APPLICATIONS AND DISPOSAL OF**  
2 **ELECTRIC DRIVE VEHICLE BATTERIES.**

3 (a) IN GENERAL.—The Secretary shall carry out a  
4 program of research, development, and demonstration of  
5 secondary applications of energy storage devices following  
6 service in electric drive vehicles, and of technologies and  
7 processes for final recycling and disposal of these devices.

8 (b) AUTHORIZATION OF APPROPRIATIONS.—There  
9 are authorized to be appropriated to the Secretary for car-  
10 rying out this section \$5,000,000 for each of the fiscal  
11 years 2009 through 2014.

12 **SEC. 8. COORDINATION AND NONDUPLICATION.**

13 To the maximum extent practicable, the Secretary  
14 shall coordinate activities under this Act with other pro-  
15 grams and laboratories of the Department and other Fed-  
16 eral research programs.

Page 7, line 1, insert “and section 989” after “through (d)”.

Page 7, line 2, insert “and 16353” after “through (d)”.

Amend the title so as to read: “A Bill to provide for research, development, and demonstration programs in advanced energy storage systems for electric drive vehicles, stationary applications, and electricity transmission and distribution applications, to support the ability of the United States to remain globally competitive in this field, and to promote the efficient delivery and use of energy.”.